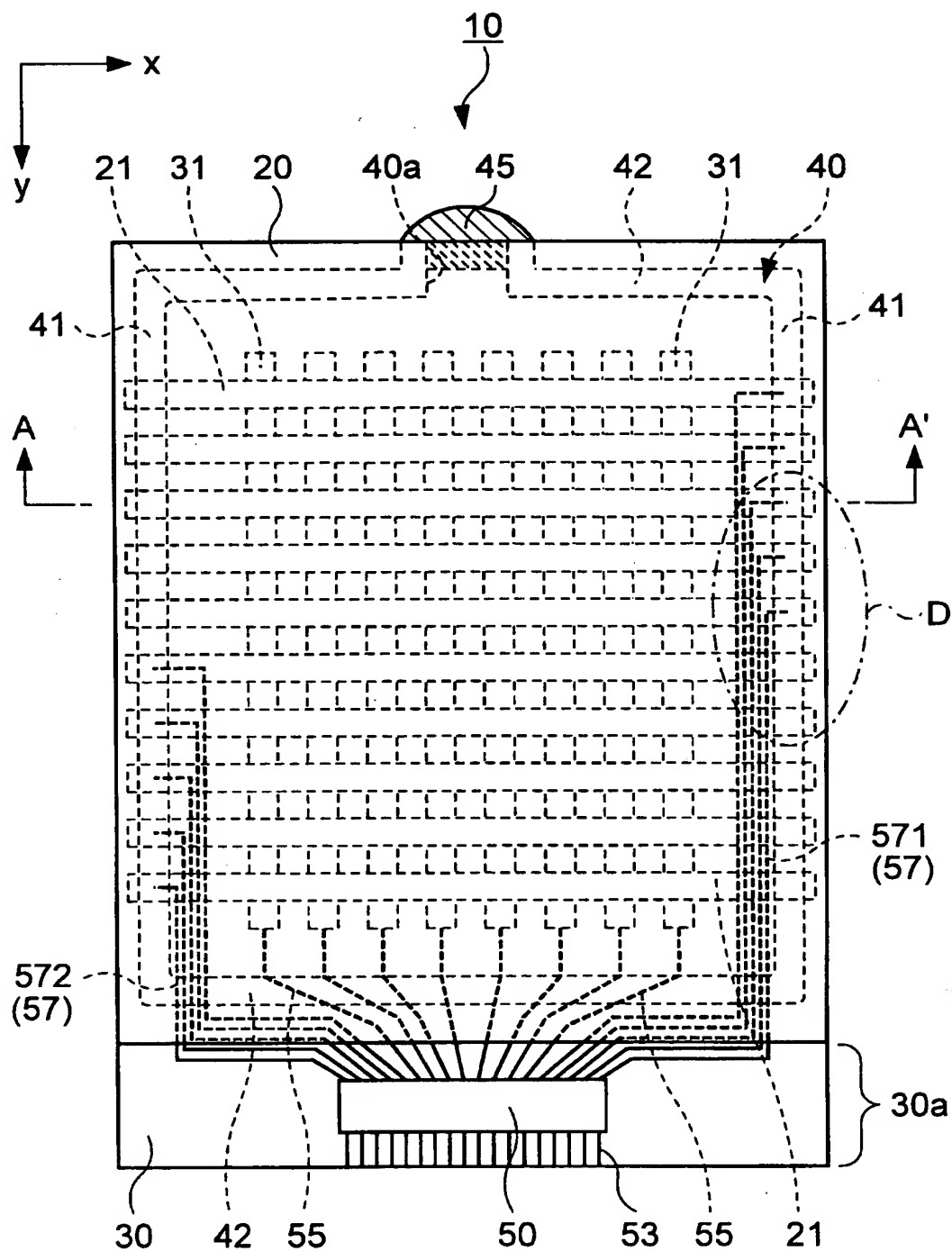


FIG. 1



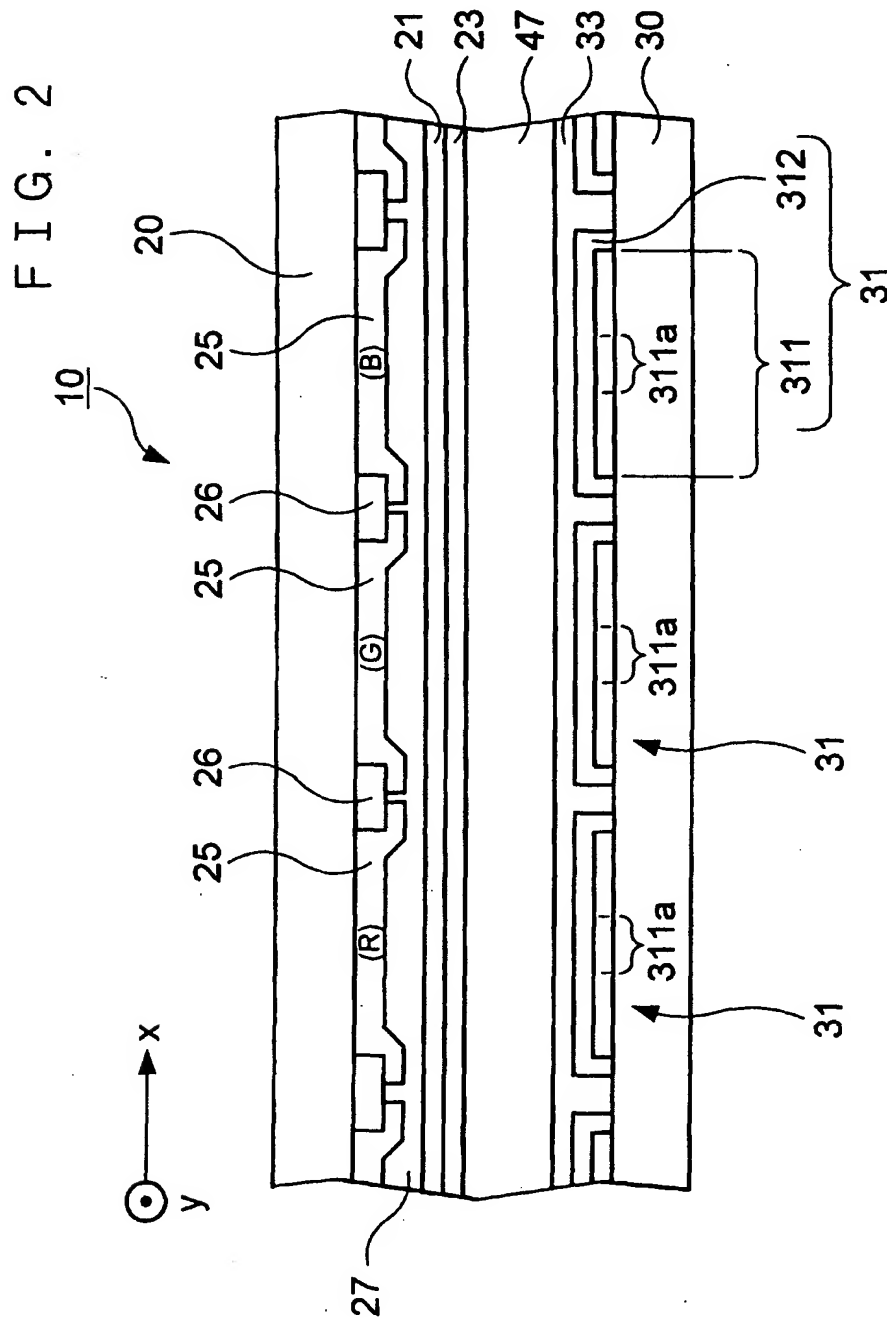


FIG. 3

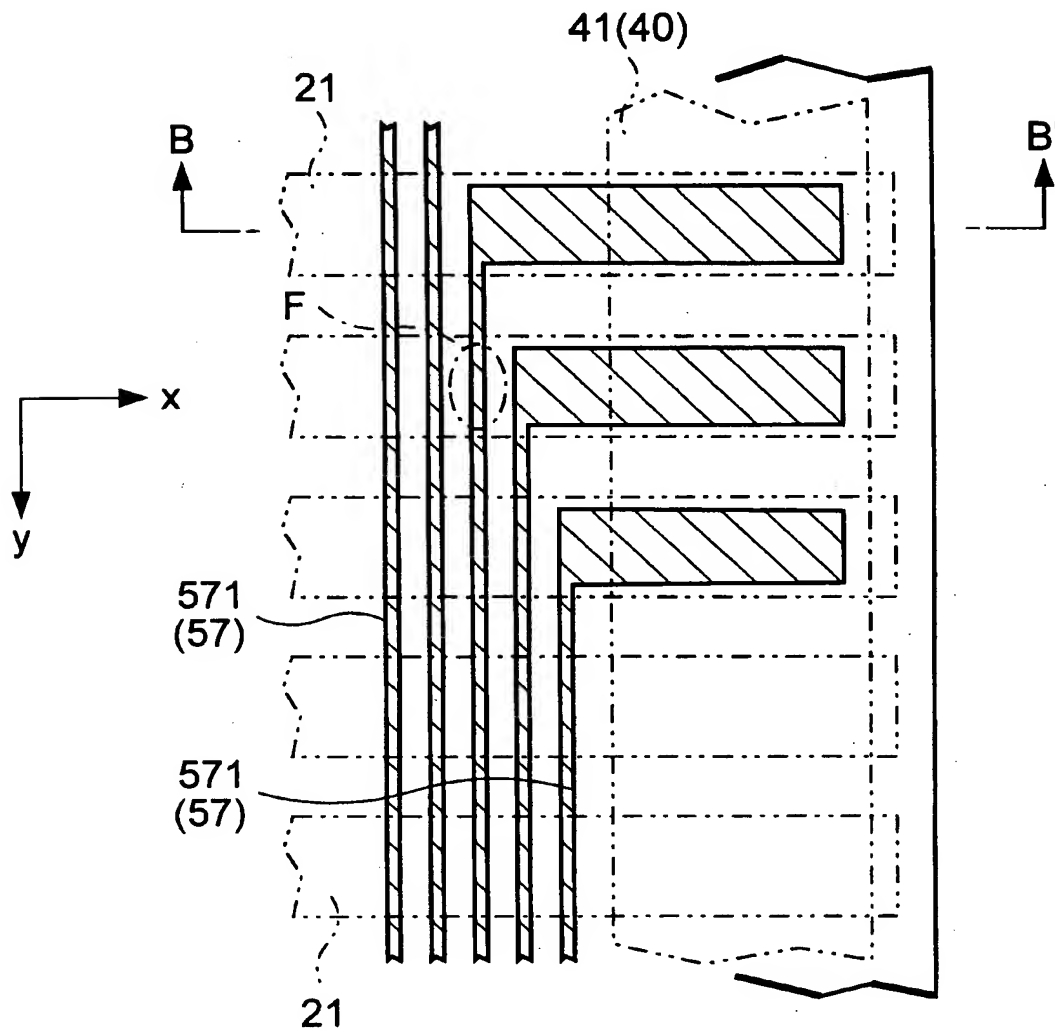


FIG. 4

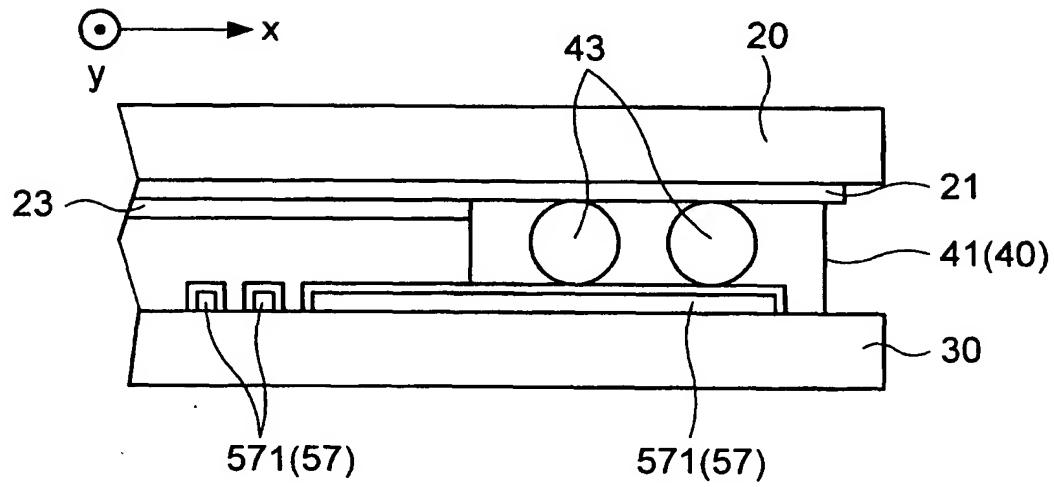


FIG. 5

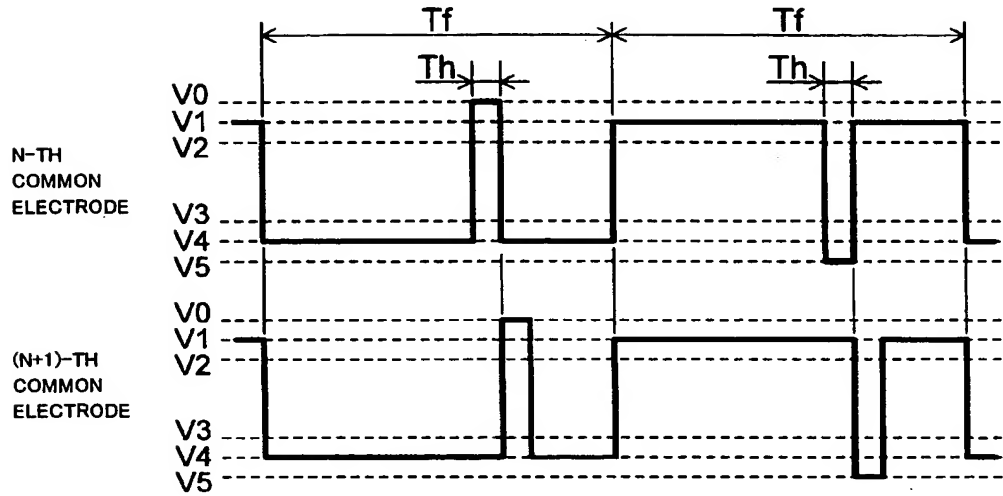


FIG. 6

BIAS VALUE  $a = V_{op}/V_x$

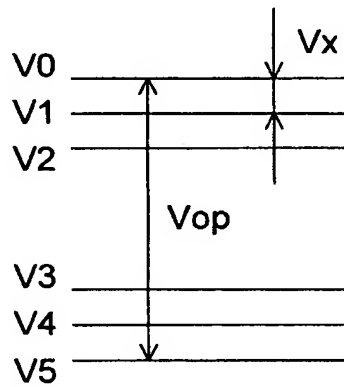


FIG. 7

| N   | a  | Von / Voff | VOLTAGE EFFECTIVE VALUE |       |        |
|-----|----|------------|-------------------------|-------|--------|
|     |    |            | Von                     | Voff  | Vcross |
| 160 | 15 | 1.0820     | 2                       | 1.848 | 2.021  |
|     | 14 | 1.0824     | 2                       | 1.848 | 1.952  |
|     | 13 | 1.0823     | 2                       | 1.848 | 1.874  |
|     | 12 | 1.0816     | 2                       | 1.849 | 1.787  |
|     | 11 | 1.0801     | 2                       | 1.852 | 1.690  |
| 132 | 14 | 1.0905     | 2                       | 1.834 | 2.033  |
|     | 13 | 1.0911     | 2                       | 1.833 | 1.960  |
|     | 12 | 1.0911     | 2                       | 1.833 | 1.876  |
|     | 11 | 1.0903     | 2                       | 1.834 | 1.782  |
|     | 10 | 1.0884     | 2                       | 1.838 | 1.675  |
| 80  | 11 | 1.1180     | 2                       | 1.789 | 2.000  |
|     | 10 | 1.1188     | 2                       | 1.788 | 1.903  |
|     | 9  | 1.1180     | 2                       | 1.789 | 1.789  |
|     | 8  | 1.1151     | 2                       | 1.794 | 1.656  |
|     | 7  | 1.1094     | 2                       | 1.803 | 1.500  |
| 60  | 10 | 1.1370     | 2                       | 1.759 | 2.019  |
|     | 9  | 1.1386     | 2                       | 1.757 | 1.912  |
|     | 8  | 1.1379     | 2                       | 1.758 | 1.785  |
|     | 7  | 1.1339     | 2                       | 1.764 | 1.633  |
|     | 6  | 1.1255     | 2                       | 1.777 | 1.451  |

FIG. 8

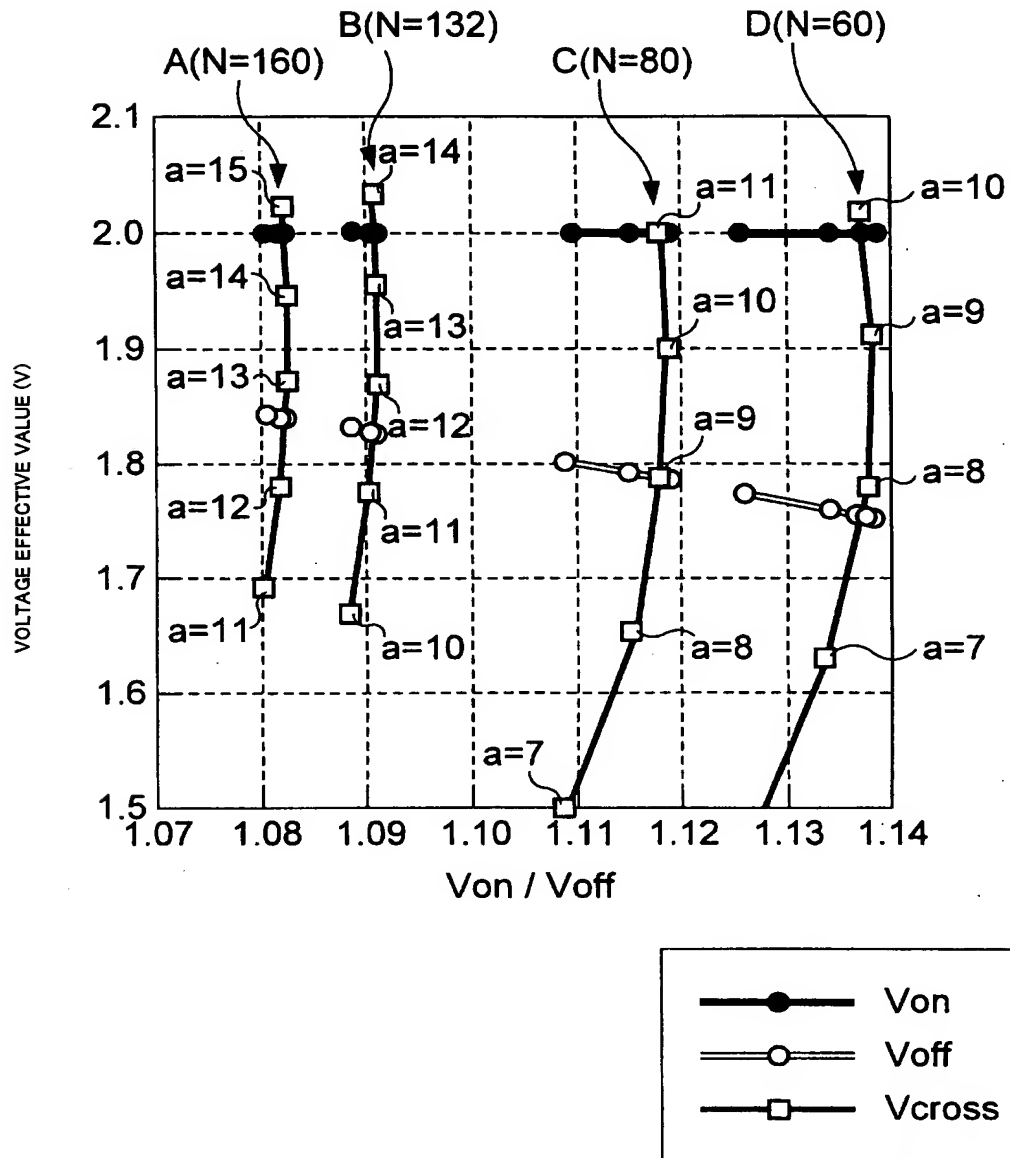


FIG. 9

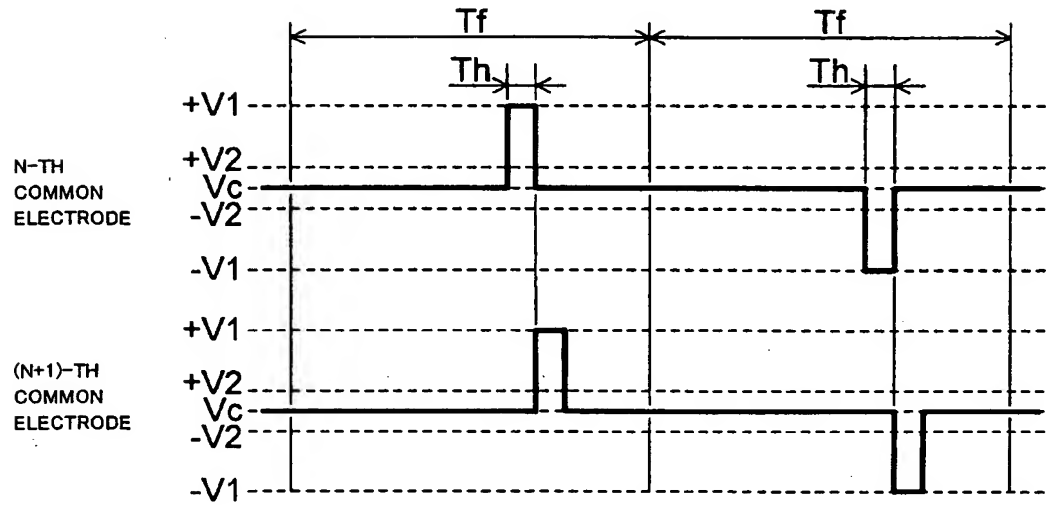


FIG. 10

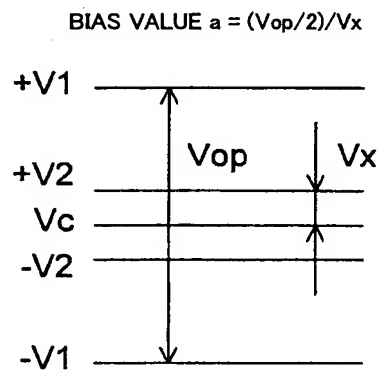
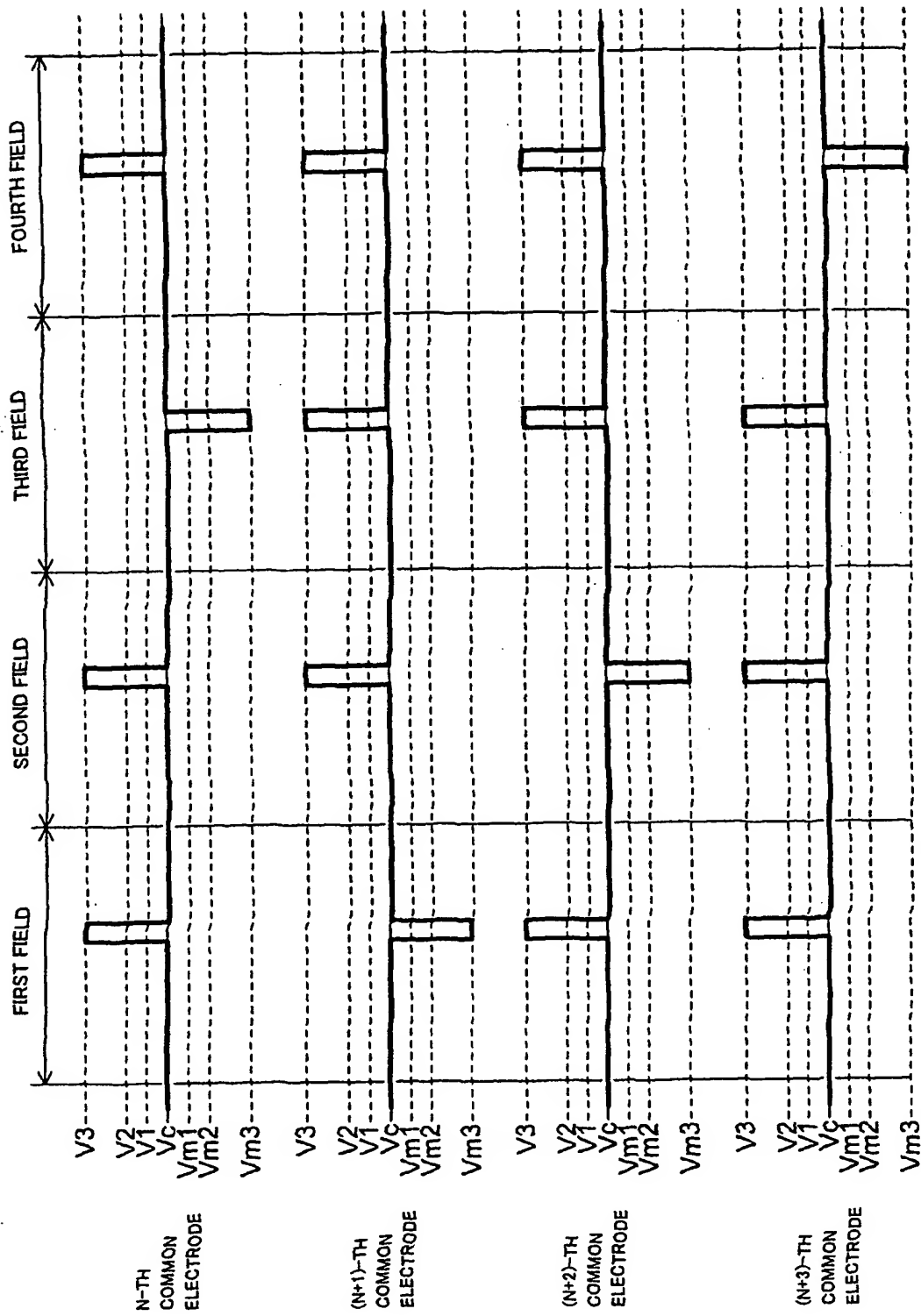




FIG. 11



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FIG. 12

BIAS VALUE  $a = V_{op}/V_x$

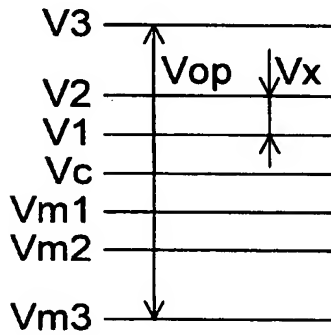


FIG. 13

VOLTAGE/REFLECTANCE (TRANSMITTANCE) CHARACTERISTIC (NORMALLY BLACK MODE)

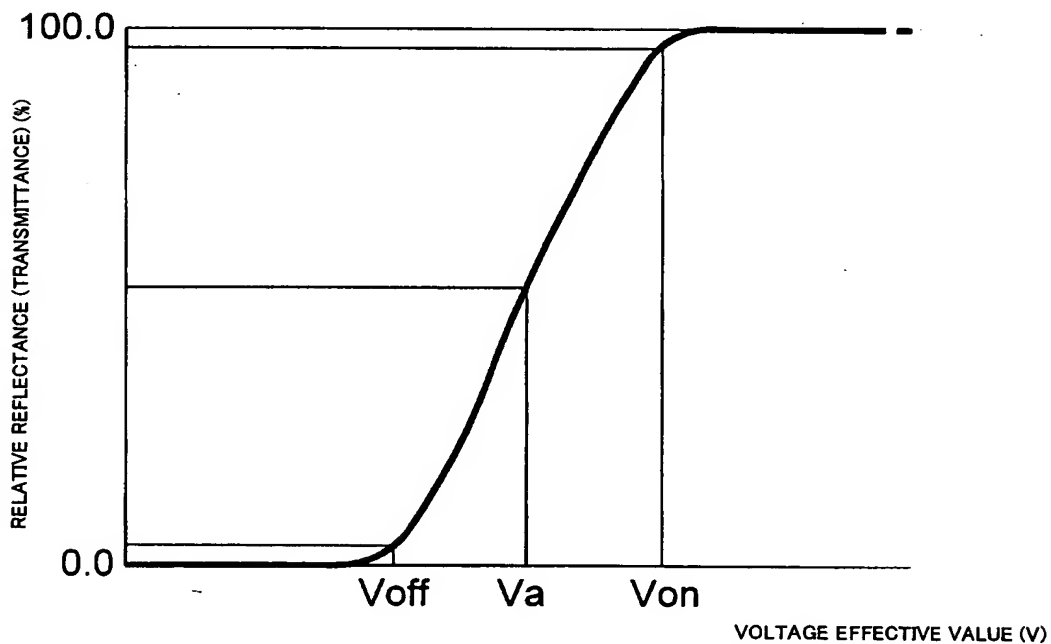
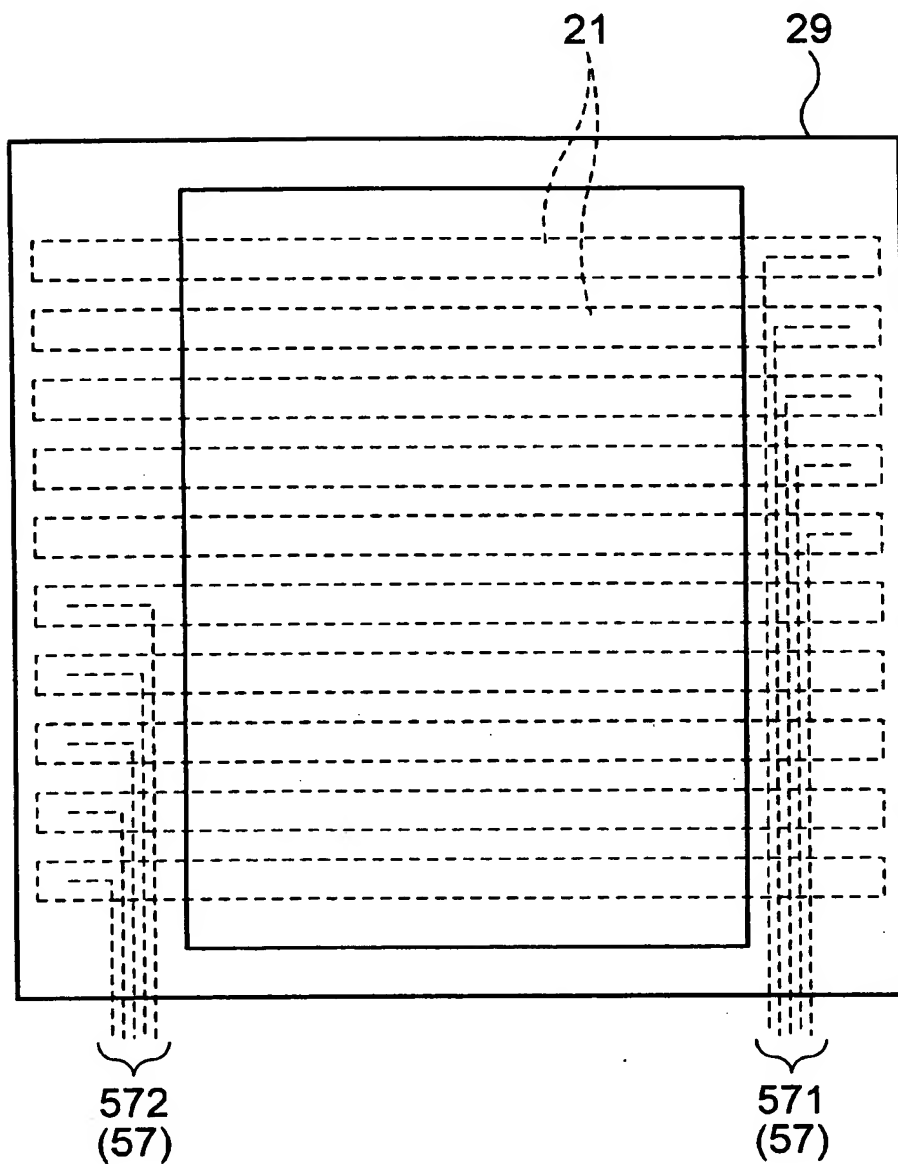


FIG. 14



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FIG. 15

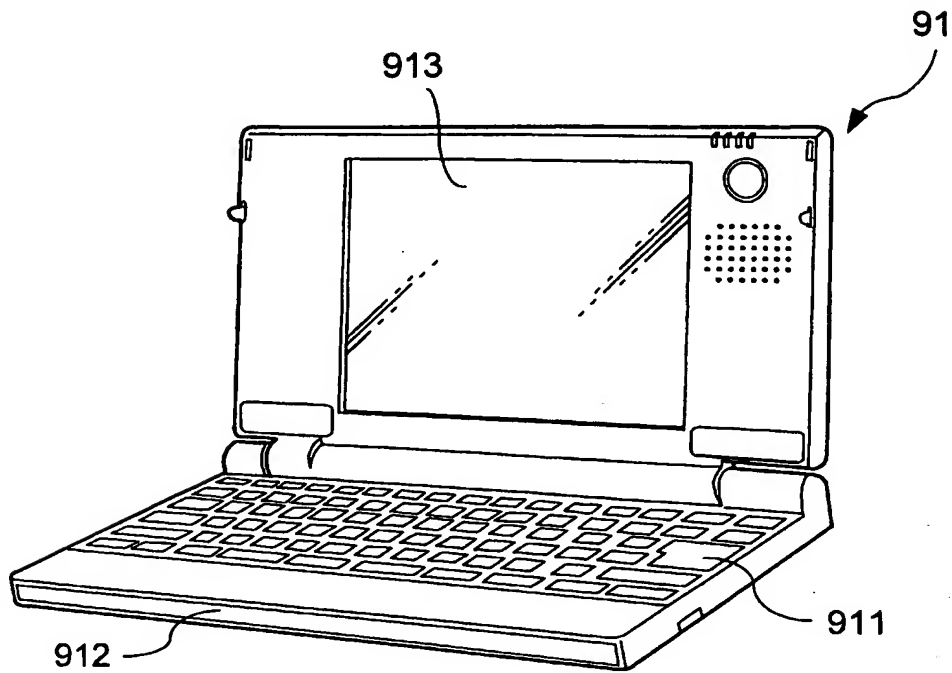


FIG. 16

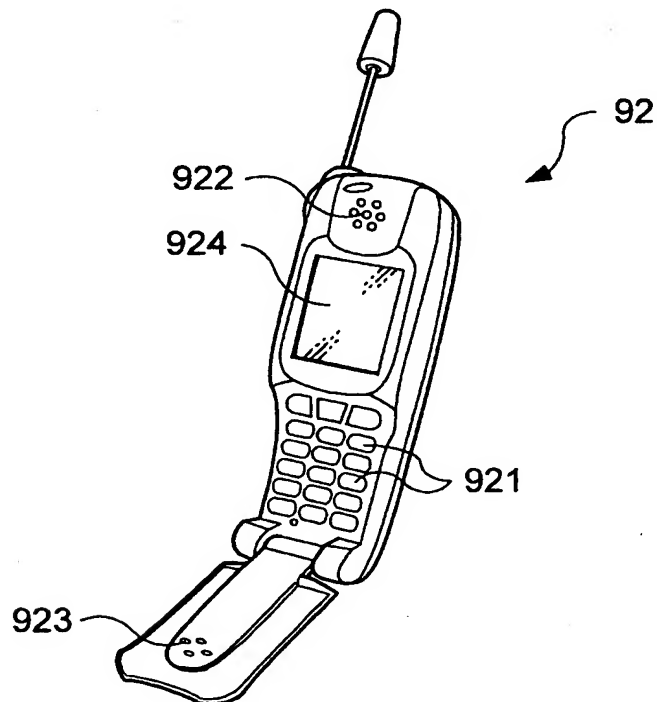


FIG. 17

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PRIOR ART

